

CLAIMS

1. A sheet feeder for separating one of paper sheets piled thereon and feeding the separated sheet to a next process, wherein a sensor lever abutting against the top of sheets piled swings with a swinging axis and changes its angle in accordance with the amount of sheets and when a large number of sheets are loaded the swinging axis moves upward together with the sensor lever in the direction of separating the sensor lever from the pile of sheets.

2. A sheet feeder as defined in claim 1, wherein a supporting member for supporting the sensor lever has an elliptic hole made for fitting therein the swinging axis of the sensor lever and the sensor lever has a abutting member formed thereon for abutting against a receiving portion of the supporting member to prevent the swinging axis of the sensor lever from moving when working with a decreased amount of sheets piled or with no sheet.

3. A sheet feeder as defined in claim 1, wherein a supporting member for supporting the sensor lever has an elliptic hole having an enlarged round hole made for fitting therein the swinging axis of the sensor lever and the swinging axis of the sensor lever has a noncircular section to prevent the swinging axis of the sensor lever from moving in the elliptic hole when working with a decreased amount of sheets piled or with no sheet.

4. A sheet feeder as defined in any of claims 2 and 3, wherein a sheet piling portion has a concave formed thereon and a lower tip of the sensor lever falls in the concave with no sheet on the sheet piling portion.